

Brief Resume

Name: **Dr. Pramod Kumar Singh**
Email: singh_p_kumar@rediffmail.com, pk.singh@bbdu.ac.in
Mob.: **09919193668**

Date of Birth: July 01, 1972
Present Position: **Professor**
School of Basic Sciences, Babu Banarasi Das University, Lucknow.
(DOJ: 18/09/2007 and continued to Till Date)

Specialized Area: Plant Physiology, Biotechnology, Microbiology, Carbon Sequestration, Waste water treatment by activated carbon prepared by biowaste and nano-materials.

Community Work: Sensitization of community and Farmers towards organic farming and Natural Farming through Farmer Producer Organization (FPO's) as **Board of Director**

M Sc: **Plant Science** in 1996 from Lucknow University, Lucknow
PhD Degree: **Botany** awarded in 2003 from Lucknow University
Thesis topic: Effect of sodicity and fertility on the growth, metabolism and essential oil quality of fennel (*Foeniculumvulgare* Mill.) under joint supervision of **Professor P. K. Tandon**, Department of Botany, University of Lucknow, Lucknow and **Dr. V. K. Garg (Scientist F), CSIR-NBRI, Lucknow.**

Total API: **805**
H-index: **14**
Teaching Experience: 19 Years 9 months (Graduate, Post Graduate and PhD Courses.)
Research Experience: 24 Years and 5 months (as **Young Scientist, Expert Member, Mentor, RA**)
Research Guide (PhD): **10 PhD degree awarded** and 6 Pursuing
Research Project: 2 Major and 2 Minor (Completed) and Three Project Submitted for approval
Consultancy: 01
Awards: **04** (Two times **Best Faculty Awards in 2022 and 2023 by BBD University**)
Research Gate Link: <https://www.researchgate.net/profile/Pramod-Singh-27>
Google Scholar Link: <https://scholar.google.com/citations?hl=en&user=cIICvAoAAAAJ>
LinkedIn Link: <https://www.linkedin.com/in/pramod-kumar-singh-740a8b23/>
Research Publication: **62 (05 Book chapter s & 59 Research Papers, UGC approved, SCI & Scopus indexed) Total Impact Factor : 85**
(i) Book Chapter: 05
(ii) Journal Indexed in Thomson Reuters: 19
(iii) Peer Reviewed (SCI): 15
(iii) UGC Care listed Journal (SCI): 20
(iv) National non SCI Journal: 04
Paper Presented in National/International Conference: 29 (**One paper presented in Singapore**)
Paper Reviewed for International Journals: **16**
Invited Lecture as Resource Person: **86**
Training/ICT Mediated Teaching Learning Pedagogy: **14**
Responsibility in BBD University: NAAC committee member of Criteria , Member of IQAC, RDC member, Convener of BOS, R&D Cell, Member of Committee Green Audit and member of many other Committee.



(Pramod Kumar Singh)

Project Submitted For Approval from Funding Agencies

1. Title of the scheme/project: Assessment of Carbon Sequestration and Carbon Credit in different farming system (Natural, Organic and Conventional) adopted by farmers of Uttar Pradesh as climate resilience technology.

(a) Broad area/field: Environmental Sciences: Climate Resilient Technology to mitigate Climate Change.

(b) Total Cost of Project: 18.86 Lakhs

(c) Funding Agencies: Council of Science & Technology U.P., Lucknow.

2. Title of the Project: Integrated Development of Supply Chain for Region Specific Medicinal & Aromatic Crops through Cultivation, Aggro-technology Development and Value Addition by Farmer Producer Organization.

(a) Broad Field Area: Forward and backward linkage in supply chain of medicinal plants (Integrated component)

(b) Nature of Project: Strengthen Supply Chain of Region Specific Medicinal Crops of Uttar Pradesh

(C) Total Cost of Project: 55 Lakhs

(D) Funding Agencies: National Plant Medicinal Board, Ayush Ministry, New Delhi

3. Title of the Project: Assessment of Soil Carbon Sequestration Potential and Carbon Credit in Soil Profile of Restored and Rejuvenated Harit Site of Gautam Buddha Nagar, Uttar Pradesh

(a) Total Cost of Project: 28.59 Lakhs

(b) Funding Agencies: HCL Foundation, New Delhi

Project Completed: 4

1. Project running under BBD Seed Fund Grant entitled “Development of Removal Techniques of heavy metals and dyes from waste water through activated carbon as nano particles developed by bio-waste materials. (Project No.: BBDU/Regr./2021/97 dated 28/02/2022). Completed

2. Principal Investigator in SERC Division, Department of Science and Technology, New Delhi (India). Project title “Bringing sodic wasteland to main stream: developing new frontiers of agro-techniques using aromatic crops” (Project completed).

3. Mentor Scientist in Project funded by Department of Science and Technology, New Delhi (India). Project title “**Cultivation of Jatropha (petro-crops) for environmental conservation and socio-economic development.**” from BBDNIIT, Lucknow.

4. Expert Members: Project entitled as “**A study on Silviculture development under National Afforestation Programme (NAP) and its benefits to the socio-economy of local inhabitants of selected area in state of Uttar Pradesh**” funded by Agriculture Finance Corporation Ltd, New Delhi which is a regional centre of NAEB (National Afforestation & Eco-development Board), Govt. of India. **(Project Completed)**

Supervised PhD : **10 PhD students awarded degree in Environment Science,**
 6 PhD students perusing.

Faculty Development Program(FDP):

1. Faculty Development Programme (FDP) on “Forecasting for Planning and Policy Making” under Malaviya Mission Teacher Training Programme (MMTTP) of University Grants Commission (UGC) organized by UGC-Malaviya Mission Teacher Training Centre, National Institute of Educational Planning and Administration, New Delhi in collaboration with IMI, Kolkata, West Bengal from 28 July–02 August 2025.

2. Faculty Development Programme from **2025-02-03** to **2025-02-07** on **Moodle Learning-Management System** organized by Babu Banarasi Das University with course material provided by **Spoken Tutorial Project, IIT Bombay.**

3. Two days National Workshop on “Science of Pollution Tolerant and Climate Smart Plants” sponsored by International Union of Biological Sciences, Paris and organized by CSIR-National Botanical Research Institute (CSIR-NBRI), Lucknow during October 20-21, 2022.

4. Faculty Development Program on “ ICT Learning and E-Content Development” organised by IQAC & Placement Cell, Ram Manohar Lohiya University, Ayodhya and sponsored by Indira Gandhi Open University, Regional Centre Lucknow from 20.07.2020 to 26.07.2020.

Short Term Training Courses:

1. Training course attended on “**Study of environmental status and legal aspects of fertilizer Effluents along with effluent treatment plant**” in Quality and Environment Control Department of Indo-Gulf Fertilizer and Chemical Corp. Ltd., Sultanpur, U.P. (India) from Nov. 17-29, 1997.

2. Training course attended on “**Integrated nutrient management**” in Regional Soil Testing Laboratory, Lucknow U.P. (India) from March 8-12, 1999.

3. Training course attended on “**System analysis and modeling of crop production and management**” in Central Soil Salinity Research Institute, Regional Research Station, Lucknow U.P. (India) from August 26-31, 2002.
 4. Training course attended on “**Post harvest technology of medicinal and aromatic crops**” in Nation Botanical Research Institute, Lucknow U.P.(India) from January .2-7, 2003.
 5. Training course attended on “**Genesis of sodic soils**” in Central Soil Salinity Research Institute, Karnal, Hariyna (India) from March 24-29, 2003.
 6. Training course attended on “**Water management in saline-alkaline soils**” in ICAR Research Complex for Eastern Region, Patana, Bihar (India) from April 21-26, 2003.
 7. Training on “**Development and uses of NPTEL courses**” from IIT, Kanpur from August 21-22, 2011.
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List of Publication

A. Book Chapter

1. Vinod Kumar, Richa Singh, Shalini G Pratap and Pramod Kumar Singh (2023): **Trends and Advances in Hazardous Waste Disposal Techniques in India**. *Futuristic Trends in Chemical, Material Sciences and Nano-technology*, Book Series ID: IIPV3EBS06_G94(IIP Publisher)
2. **Pramod Kumar Singh**, Shalini G Pratap, Pramod Kumar Tandon (2020): The **Mechanism of Trace Element Uptake and Transport Up to Grains of Crop Plants**,(Eds): *Sustainable Solutions for Elemental Deficiency and Excess in Crop Plants*, pp 119-133. ISBN 978-981-15-8635-4, 490120_1_En, (Springer Nature).
3. Pokhraj Sahu, **Pramod Kumar Singh**, Prashant Singh, Vinay Kumar, Pramod Kumar (2020): High Exposure Dose of Fluoride Owing to Risk of Fluorosis in Inhabitants of Sareni Block Located at the Ganga River Basin Uttar Pradesh (India). In *Groundwater Quality: Assessment and Environmental Impact*. pp 108-129.ISBN: 978-1-53618-807-3(Nova Publication).
4. Vinay Kumar, Pokhraj Sahu, Pramod K. Singh, Nishi K. Shukla, Devendra P. Mishra and Markandeya (2020) Evaluation and Quantification of Anionic Surfactant in the Gomti River at Lucknow City, India. *Waste Water Treatment*, In Tech Publisher.
5. V. K. Garg, P. K. Singh and R. S. Katiyar (2000) Yield and nutrient uptake by some spice crops grown in sodic soil. *Spices and Aromatic Plants: Challenges and opportunities in the new century*. Contributory papers. Centennial conference on spices and aromatic plants, Calicut, Kerala, India, 20-23 September (2000), 133-138.

B. Paper Published in International/National Journals

1. Divya Pandey, Shalini G Pratap and Pramod Kumar Singh (2026): Assessment of water quality and identification of Freshwater Algal Biodiversity in different location of River Ganga in Varanasi, Uttar Pradesh. *Shodh Drishti* 17(3): 101-106
2. Perna Rathaur, Vinod Kumar, Shalini G Pratap and Pramod Kumar Singh (2025): Anti-oxidative response, photosynthetic pigment and water relation in *Hiptis saevelense* against sodic stress soil. *Kronika Journal*, 25(12):
3. Arti Gupta, Vinod Kumar, Perna Rathaur, Richa Singh, Abhishek Madhesiya and **Pramod Kumar Singh** (2025): Characterization of activated carbon nano materials generated from sugarcane bagasse and its effectiveness for removal arsenic from aqueous solution. *Kronika Journal*, 25(12):157-169.
4. Shalini G Pratap, Vinod Kumar, Pokhraj Sahu and ***Pramod Kumar Singh** (2024): Statistical interpretation of quantitative and qualitative changes in mycoflora of rhizosphere and rhizoplane induced by foliar application of gibberellic acid at different growth stages of chick pea (*Cicer arietinum*) plant. *International Journal of Plant and Environment* 10(4):84-96.
5. Tripathi K.N., Ma, R.S. Kumar, Pratap, S.G., ***Singh P.K.** (2024): Municipal solid waste characterization and vermicompost based management of garbage in Lucknow city: Effect of vermicompost on rhizomatous aromatic crops grown in sodic degraded soil. *Journal of Applied Science, Innovation & Technology* 3(2), 97-105.
6. Arti Gupta, Perna Rathaur, Vinod Kumar, Shalini G Pratap and Pramod Kumar Singh (2024) Arsenic Pollution in Environment causing toxicity and remediation: A Review. *International Journal of Research and Analytical Review* 11(1): 268-281.
7. Pradeep Kumar Singh, Vinod Kumar, Shalini G Pratap, Abhay Raj and **Pramod Kumar Singh** (2023): Characterization of inorganic and organic pollutants load in tannery wastewater: Biochemical and hematological induced changes in Swiss mice. *Journal of Hazardous Materials Advance*. 12,100387.
8. Arti Gupta, Pragya Singh, Vinod Kumar, Lalji Verma, Shalini G Pratap and **Pramod Kumar Singh** (2023): Removal of arsenic from contaminated water: Phytoaccumulation in naturally grown plant and removal by adsorption on activated carbon prepared from cattail (*Typha tripholia*) plant. *Journal of Environmental Biology*, 44: 594-601.
9. Richa Singh, Vinod Kumar, Rajesh Kumar Tiwari, Shalini G Pratap and **Pramod Kumar Singh** (2023): Hazardous waste leachates induced changes in plant water relation, photosynthetic pigments, heavy metal accumulation and yield of mustard (*Brassica juncea* L.) plant. *Journal of Hazardous Materials Advance*. 10: 100306
10. Vinod Kumar, Pokhraj Sahu, Richa Singh, Arti Gupta, and Pramod Kumar Singh* (2023) Statistical interpretation and profiling of chromium in the waste of the Basic Chrome Sulphate (BCS) sludge collected from dumping site of Khanchandpur-Rania, district Kanpur Dehat, Uttar Pradesh (India). *Journal of Hazardous Materials Advance* 9: 100231.
11. Pradeep Kumar Singh, Vinod Kumar, Richa Singh and **Pramod Kumar Singh** (2023): Toxic effect of tannery waste water on human health, plant and aquatic ecosystem: A review. *International Journal of Research and Analytical Review*, 10(3):245-260.
12. Vinod Kumar, Richa Singh, Shalini G Pratap and **Pramod Kumar Singh** (2023): Optimization of pH during stabilization of Hazardous waste Basic chrome sulfate sludge for chromium hexavalent. *International Journal of Research and Analytical Review*, 10(2):256-260.

13. Richa Singh, Vinod Kumar, Shalini G Pratap and **Pramod Kumar Singh** (2023): Chromium containing Leachates Induced Changes in Growth, Biomass Yields, Water relation, Photosynthetic Pigments of Tulsi (*Ocimum sanctum*) Plant. *International Journal of Research and Analytical Review*, 10(2):706-720.
14. Sunita Singh, Vishal H Patel, Shalini G Pratap, Pramod Kumar Singh and Pramod Kumar Tandon (2022) Biochemical characterization of protease enzyme extracted from different plant leaves and seeds: Destaining efficiency of enzyme for stain removal. *Indian Journal of Agricultural Biochemistry*, 35(2), 175-181.
15. Sandeep Kumar, Ashutosh Yadav, Annapurna Maurya, Shalini G. Pratap, Pramod Kumar Singh, Abhay Raj (2022) Characterization of tannery effluents by analyzing the recalcitrant organic pollutants and phytotoxicity assay. *Journal of Applied Biology & Biotechnology Vol. 10(Suppl 2)*, pp. 91-99, DOI: 10.7324/JABB.2022.10s210
16. Sunita Singh, Aman Saifi, Shalini G Pratap and Pramod Kumar Singh* (2022) Comparative destaining properties of protease enzyme extracted from jasmine (*Jasminum sambac*), banana (*Musa paradisiaca*) and ginger (*Zingiber officinale*). *Journal of Emerging Technology and Innovative Research (JETIR)*, 9(2):515-519.
17. Sunita Singh, Pragya Singh, Aman Saifi, Shalini G Pratap and Pramod Kumar Singh* (2021): Plant based enzymes mediated biodegradation of Azo dyes: A Review. *International Journal of Plant and Environment*, 7(3): 188-201.
18. Vinay Kumar, Pokhraj Shahu, **Pramod Kumar Singh**, Markandeya (2020): Multivariate statistical approach for the analysis of organic and inorganic pollutants load in Gomti river at Lucknow city, *International Journal of Environmental Research*, 14: 653-666. (Elsevier Publication)
19. Shalini G Pratap and **Pramod Kumar Singh** (2020): Impact of chemical (pesticide and fungicide) and organic manure on root nodulation, growth of root and shoot of chickpea (*Cicer arietinum*) plant. *Plant Archives*, 20, Special Issue (AIAAS-2020): 254-260.
20. **Pramod Kumar Singh**, Shalini G. Pratap and Pramod Kumar Tandon (2019): Effect of vermicompost developed by municipal solid waste on rhizome yield, photosynthetic pigments and metabolism of mango ginger (*Curcuma amada*) grown in highly sodic degraded soil. *Horticulture International Journal*, 3(5): 252-259 (Med Crave Publication).
21. **Pramod Kumar Singh**, P Bujarbarua, KP Singh, PK Tandon (2019): Report on the bioaccumulation of heavy metals by foliose lichen (*Pyxine coccinea*) near polluted area of Nagaon Paper Mill, Marigaon, Assam, North-East India. *Journal of New Biological Report, JNBR* 8(1), 15-21.
22. Ila Srivastava, **Pramod Kumar Singh**, Tarun Gupta, Nalini Sankararamakrishnan (2019): Preparation of mesoporous carbon composites and its highly enhanced removal capacity of toxic pollutants from air. *Journal of Environmental Chemical Engineering*, 7: (2019) 103271. (Elsevier Publication)
23. Pokhraj Sahu, **Pramod Kumar Singh**, Ganesh Chandra Kisku, Prashant Singh, and Vinay Kumar (2019) An assessment of groundwater quality at Lalganj block, Uttar Pradesh, India: A Water Quality Index approach. *Journal of Emerging Technologies and Innovative Research*, 6: 2, 54-67.

24. **Pramod Kumar Singh**, Shalini G. Pratap and Pramod Kumar Tandon (2018): Tolerance of Mango ginger (*Curcuma amada* Roxb.) against sodic stress soil: Effects on growth, rhizome yield, water relation, photosynthetic pigments, antioxidative enzymes, cations and heavy metals concentration, *Horticulture International Journals*, 2(6):287–297. DOI: 10.15406/hij.2018.02.00066 ([MedCrave Publication](#))
25. Illa Srivastava, **Pramod Kumar Singh** and Nalini Sankararamakrishnan (2018): Fast and efficient removal of Toluene, Ethylbenzene and O-Xylene from aqueous phase by functionalized carbon micro/nano composites *Journal of Environmental Chemical Engineering*, 6(4): 4917–4926. ([Elsevier Publication](#)).
26. Pokhraj Sahu, Ganesh Chandra Kisku, **Pramod Kumar Singh**, Vinay Kumar, Amit Kumar and Pramod Kumar (2018): Multivariate Statistical Interpretation on seasonal variations of Fluoride Contaminated Groundwater Quality of Lalganj Tehsil, District Rabareli (UP) India. *Environmental Earth Sciences*, 77 (13):1-11. <https://doi.org/10.1007/s12665-018-7658-1> ([Springer Publication](#)) (UGC-CARE List II)
27. **Pramod Kumar Singh** Neetu Pandey and Shalini G. Pratap (2018): Soil carbon sequestration as climate change mitigation: A case study of change in soil organic carbon stock and carbon sequestration during last three decades in Dewa block of district Barabanki (U.P.) India, *Shristi-A Journal of Energy, Environment and Ecology*, Vol. 1, Issue 1, 1-16.
28. Lal Ji Verma, **Pramod Kumar Singh** and Harshita Tyagi (2018): Adsorption Characteristics of Cadmium [Cd (II)] ION by Iron Powder & Oxidized Iron Powder. *IJSRD - International Journal for Scientific Research & Development*, 6(8), 495-98.
29. Singh P, **Singh PK**, Tondon PK, Singh KP 2018 – Heavy metals accumulation by epiphytic foliose lichens as biomonitors of air quality in Srinagar city of Garhwal hills, Western Himalaya (India). *Current Research in Environmental & Applied Mycology* 8(2), 282–289, Doi 10.5943/cream/8/2/11: ISSN 2229-2225 ([Published by IPEP, Beijing Academy of Agriculture and Forestry Science, P.R.China](#)).
30. **Pramod Kumar Singh** and Lal Ji Verma (2017): Removal of cadmium [Cd (II)] ion by activated carbon prepared from *Eichhornia crassipes* Mart. (ACECM), *SAMRIDDHI-A Journal of Physical Sciences, Engineering and Technology* (S-JPSET), Vol. 9(2), 113-118, ISSN : 2229-7111 (Print) & ISSN : 2454-5767 (Online).
31. Vinay Kumar, **Pramod Kumar Singh**, Pramod Kumar, Pokhraj Sahu, Nishi Kumar Shukla, Markandey and Ganesh Chandra Kisku (2017): Characterization of the river bed sediment profile and evaluation of urbanization pollutants at Lucknow city area. *International Journal of Advance Research*, 5(8), 370-380, (ISSN: 2320-5407).
32. Vinay Kumar, **Pramod Kumar Singh**, Pokhraj Sahu, Pramod Kumar, Nishi Kumar Shukla, Markandey and Ganesh Chandra Kisku (2017): Status Assessment of Physicochemical Parameters in Gomti River Water Quality at Lucknow City Area, *International Journal of Applied Research and Technology* (ISSN: 2519-5115), 2(4): 225-236.
33. Lalji Verma, **Pramod Kumar Singh** and Saurabh Ambastha (2017): Heavy metal removal from domestic waste water employing live *Eichhornia crassipes*. *SAMRIDDHI-A Journal of Physical Sciences, Engineering and Technology* (S-JPSET), 9(1), pp. 47-50. ISSN: 2229-7111, (UGC Approved: Sl. No. 434 and Journal No. 64061).

34. **Pramod Kumar Singh**, Neelam Singh Verma, Neetu Pandey and Prashant Singh (2015): Soil Sodicity Induced Changes in Aromatic Plants: Effects on Growth, Water Relation, Photosynthetic Pigments, Antioxidative Enzymes, Cations Concentration and Quality of *Ocimum sanctum*, **Research Journal of Medicinal Plant** 9 (8), , pp. 375-394, ISSN 1819-3455. DOI: 10.3923/rjmp.2015.375.394.
35. **Pramod Kumar Singh**, Neetu Pandey, Monika Gupta, Alok Kumar (2015): Sustainable Municipal Solid Waste Management through Vermitechnology: Impact of Vermicompost on Sweet flag (*Acorus calamus*) plants and Sodic Degraded Land. *International Advanced Research Journal in Science, Engineering and Technology*, 2 (1), pp. 139-146. ISSN 2394-1588 DOI: 10.17148/IARJSET
36. **Pramod Kumar Singh**, Kumar P and Tandon P K: Soil sodicity alters antioxidative enzymes, photosynthetic pigments, water contents and essential oil quality of fennel (*Foeniculumvulgare* Mill). **Research Journal of Soil Biology**, 6(1), **2014**, pp. 1-16. ISSN 1819-3498 DOI:10.3923/rjsb 2014.1. 16
37. **Pramod Kumar Singh** and Prashant Singh : Development of mathematical model of River Gomati: Assessment and prediction of water quality. *Hydrology: Current Research*, 5(4), **2014**, pp. 63. ISSN 2157-7587 DOI 10.4172/2157-7587.S1.012
38. Tiwari, R. K. **Singh, P. K.** and Watanabe (2013). The spatial patterns of oxidative stress indicators co-locate with early signs of natural senescence in maize leaves **Acta Physiologiae Plantarum. 35: 949-957.** ISSN 1861-1664 (DOI 10.1007/s 11738-012-1138-0) (UGC-CARE List II).
39. **Singh PK**, Verma NS, Tandon PK. (2012) Antibacterial activity of essential oils of *Sesseliindicum* a wild weed of family Apiaceae. **Webmed Central PHARMACOLOGY**, 3(5): WMC003333.
40. Kumar R., B.D. Nautiyal, N.K. Mehrotra, P. Kumar and **P.K. Singh** (2009) Effect of copper application on growth, yield and concentration of Fe, Mn, Zn and Cu in wheat (*Triticumaestivum* L.) plant. **J. Environmental Biology**, 30(4), 485-88. (UGC App.: SN 1 and J. No. 7384)
41. Tandon, P.K., V.K. Garg, S. Shukla, T. Bano, **P.K. Singh**, A. Rastogi and A. Bhargava, (2009). Relative selection efficiency for fennel grown on sodic soil. *J Med. Arom. Plant Sci.*, 29: 216-220. (ISSN: 0253-7125)
42. **P. K. Singh**, S. Kishore, J Prakash, S. K. Singh and M. Shukla (2008) Cyanophycean algae inhabiting diverse morphology: An adaptation to high exchangeable sodium, *Ecoprint An International Journal of Ecology* 15, 15-21. (ISSN: 1024-8668)
43. Garg V.K., **Singh P.K.**, Pushpangdan P. (2005) Exchangeable sodium induced changes in yield, water relation and cation composition of fennel (*Foeniculumvulgare* Mill.). **J. Environmental Biology**, 26 (2) 335-340. (UGC App.: SN 1 and J. No. 7384)
44. Garg, V.K. and **Singh P.K.** (2005) Status of nutrients in some soils and plants of Meghalaya. *J. Indian Forestry* 28(4) 411-415.
45. Katiyar R.S., Garg V.K., **Singh P.K.** (2005) Foliar spray of zinc and copper on growth, floral characteristics and yield of gladiolus grown in sodic soils. **Indian J. Hort.** 62 (3) 272-275.
46. Nayaka, S., **Singh, P.K.** and Upreti, D.K. (2005). Fungicidal elements accumulated in *Cryptothecia punctulata* (Ascomycetes lichen) of an Arecanut orchard in South India. **J. Environ. Biol.** 26(2) 299-300. (UGC App.: SN 1 and J. No. 7384)

47. Singh, B., Garg, V.K., **Singh, P.K.** and Tripathi, K.P. (2004). Diversity and Productivity effect on the amelioration of afforested sodic soils. *India Forester*. **130** (1) 14-26
48. Garg, V.K., **Singh, P.K.** and Katiyar, R.S. (2004). Yield, quality and mineral composition of coriander (*Coriandrum sativum*) and fennel (*Foeniculum vulgare* Mill) grown in sodic soil. *Indian J. Agric. Sci.* **74** (4) 221-223. (UGC App. SN154 : J N 20708).
49. **Singh, P. K.**, Tewari, R.K. (2003). Cadmium toxicity induced changes in plant water relation and oxidative metabolism of *Brassica juncea* L. plants. *J. of Environmental Biology*, **24** (1) 107-112. (UGC App.: SN 1 and J. No. 7384)
50. Shukla, S.P., **P. K Singh** and Garg, V.K. (2003) Study on genetic variability and heritability in fennel grown on sodic soil of North India. *J. Medicinal Aromatic Plant Sci.* **25**: 956-958.
51. Garg, V. K., **Singh P. K.** and Singh K.K. (2003) Distribution of nutrients in soils and plants of Sikkim, *J. Indian Soc. Soil Sci.* **51** (2), 208-211. (UGC App. SN 81 : J N 11070)
52. Garg V. K., Shukla S. and **Singh P.K.** (2003) Genetic association in fennel grown on sodic soils, *J. Spices and Aromatic Crops*, **12** (2); 171-173. (UGC App. SN 159: J N 20552).
53. **Singh, P.K.** and Garg, V.K. (2003). Distribution of available micronutrients in sodic soils profile. *Biol. Memoir.* **29**(1), 30-35.
54. S.K. Yadav, **P.K. Singh**, T. Bano and V.K. Garg (2003): Usar Bhoomi Me Khas Ki Kheti, *Vigyan Vani*, Raj Bhasha Patrika, N.B.R.I., Lucknow, Vol. 9(2): 38-39.
55. Singh, P. K., Chaudhary, A.R. and Garg, V. K. (2002). Yield and essential oil of some spice crops grown in sodic soils. *Indian Perfumer*, **46**(1): 35-40.
56. **P.K. Singh** and V.K. Garg (2001) Usar Bhoomi Ke Gun Aur Lawan Sahishnu Paudhno Ka Chayan, *Vigyan Vani*, Raj Bhasha Patrika, N.B.R.I., Lucknow, Vol. 7, 2001
57. Garg, V.K., **Singh, P. K.** and Mathur, A. (2000). Characterization and classification of sodic soils of Gangetic alluvial plains at Banthra, Lucknow. *Agropedology*, **10**: 163-172. (UGC App. SN 34 J N 3090)
58. **P. K. Singh** and V.K. Garg (1999): Tikau (Sustainable) Kheti Ke Liye Jeewanish Padarth Ke Shrot Aur Mahatwa. *Vigyan Vani*, Raj Bhasha Patrika, N.B.R.I., Lucknow. Vol. 5, 1999.
59. **P.K. Singh** (1996) Wasteland Development and Watershed Management in India. *Lucknow University J. Plant Science*, Vol. No. 1, 13-16.

C. Paper Presented in Seminar, National / International Conferences

1. **Session Chair** in National Conference on Sustainable Water and Natural Resource Management: Innovations and Strategies (SWNRM-2026) organized by Amity University, Lucknow.
- 2.
3. International Conference on Waste Recycling and Environmental Technology (WRET-2024) organized by the Department of Environmental Science, Babashaheb Bhimrao Ambedkar University, Lucknow, 8 -9th, February, 2024.
Paper topic "Removal of arsenic from aqueous solution through activated carbon prepared from sugarcane bagasse and its characterization."
4. 3rd International Conference On Advances In Science, Engineering & Management (ICASEM 2022) Organized By Lords Institute Of Engineering And Technology, Hyderabad In Association With IFERP, 18-19 Nov., 2022 At Hyderabad.

Paper topic: Chromium containing BCS Sludge Leachates Induced Changes In Growth, Yield, Photosynthetic Pigments, And Water Relation Of The Wheat Plant.

5. International Conference on Multidiscipline Academic Research And Innovation, organized by Aryabhat Institute Of Academics And Research September, 10-11, 2022.

Paper topic: Chromium containing BCS Sludge Leachates Induced Changes In Growth, Yield, Photosynthetic Pigments, And Water Relation Of Mustard Plant.

6. 5th UP Agriculture Science Congress on Enhancing Farmer's Income and Water Conservation: Opportunity and Challenges, February, 22-24, 2020 organized by UP Council of Agricultural Research, Lucknow and Institute of Agricultural Science, BHU, Varanasi.

Paper Topic: Effect of foliar spray of Gibberellic acid on rhizosphere and rhizoplane fungi, amino acids, and sugars at pre-flowering, flowering and fruiting stage of chick pea (*Cicer arietinum*).

7. International Conference on Advances and Innovations in Agriculture & Allied Sciences(AIAAS-2020) organized by Society for Agriculture & Allied Research (SAAR) in Association with JNU, New Delhi, IISR, Lucknow, during 31st January-01st February, 2020, at JNU Convention Centre, New Delhi(Oral Presentation)

Paper topic: Impact of chemicals (pesticide & fungicide) and organic manure on root nodulation and micro-flora of rhizospheric zone of chickpea (*Cicer arietinum*) plant

8. International Conference on Advances and Innovations in Agriculture & Allied Sciences(AIAAS-2020) organized by Society for Agriculture & Allied Research(SAAR) in Association with JNU, New Delhi, IISR, Lucknow, during 31st January-01st February, 2020, at JNU Convention Centre, New Delhi(Oral Presentation)

Paper topic: Phytostabilization of Arsenic (As) through *Typha tripholia* naturally grown in pond of Rada village in Bijua block of district Lakhimpur Kheri (U.P.), India

9. 5th Go Green Summit & the Remedies for Climate Change; Organized by Bio-Leagues World Wide and National University of **Singapore (NUS), Singapore** on 18th -19th October, 2019, Singapore.

Paper presented on the topic: Soil carbon sequestration in Silviculture: An approach for conservation of environment and socio-economic development.”

10. 5th International Seminar on “**Sources of Planet Energy, Environmental & Disaster Science: Impact on Non conventional Energy Resources(SPEEDS2019)** organized by SMS, Technical Campus, Lucknow in association with The Institution of Engineers (India), U.P. State Centre, Lucknow and Dr. A.P.J. Abdul Kalam Technical University, Lucknow on February, 7-8, 2020.

Topic: Activated carbon characterization prepared from *Typha tripholia* plants and removal of Arsenic from contaminated water.

11. 58th Annual Conference of Association of Microbiologists of India (AMI-2017) & International Symposium on Microbes for Sustainable Development: Scope & Applications (MSDSA-2017) Organized by Department of Environmental Microbiology School for Environmental Sciences, Babasaheb Bhimrao Ambedkar University, Raebareli Road, Lucknow-

226025, Uttar Pradesh, India and Association of Microbiologists of India (AMI) on November 16-19, 2017.

Topic: Genotoxicity study of tannery effluents.

12. International Conference on Renewable Energy, Green Technology and Environmental Science organized by Asian Society for Academic Research in association with IRAJ Research Forum held at New Delhi on 3rd December, 2017.

Topic: Removal of Toluene, Ethylene, Benzene, and O-Xylene from aqueous solution using carbon nano tube by floating catalytic vapour deposition methods.

13. International Seminar on “**Sources of Planet Energy, Environmental & Disaster Science: Glacier Melting & Its Challenges**” (SPEEDS-2016) organized by School of Management Sciences, Technical Campus, Lucknow in association with The Institution of Engineers (India), U.P. State Centre, Lucknow and Dr. A.P.J. Abdul Kalam Technical University, Lucknow on **November, 19-20, 2016.**

Topic: Effect of land use system on soil carbon stock and soil carbon sequestration potential in Dewa block of district Barabanki, UP.

14. 5th International Conference on Earth Science & Climate Change, Bangkok, Thailand, July 25-27, 2016, Organized by OMICS group. Paper presented on the topic of “Carbon Sequestration Potential in different land use practices adopted in bioreclaimed sodic degraded land.”

15. International Seminar on Sources of Planet Energy, Environmental and Disaster Science: Challenge and Strategies (SPEEDS-2015) organized by SMS Lucknow, in association with The Institution of Engineers, U.P. State Centre, Lucknow, UPTU Lucknow and Council of Science & Technology, Uttar Pradesh on 21st & 22nd Nov, 2015. Paper presented on the topic of “Soil Carbon Sequestration Potential in Silviculture land situated in different Agro-climatic Zones of Uttar Pradesh”.

16. **Pramod Kumar Singh**, Neetu Pandey, Monika Gupta, Alok Kumar (2015), Sustainable Municipal Solid Waste Management through Vermitechnology: Impact of Vermicompost on Sweet flag (*Acorus calamus*) plants and Sodic Degraded Land in National Conference on “Renewable Energy and Environment (NCREE-2015),” sponsored by CARE (Center for Alternative & Renewable Energy) Organized by IMS Engineering College on May 9, 2015.

17. International Seminar on Sources of Planet Energy, Environmental and Disaster Science: Challenge and Strategies (SPEEDS-2014) organized by SMS Lucknow, in association with The Institution of Engineers, U.P. State Centre, Lucknow, UPTU Lucknow and Council of Science & Technology, Uttar Pradesh on 1st & 2nd Nov, 2014. (Oral Presentation).

Topic: Terrestrial carbon sequestration in Silviculture: An approach to develop silviculture for environment conservation and socio-economic development

18. 3rd International Conference on Hydrology and Meteorology, Hyderabad International convention centre, Hyderabad, Organized by OMICS Group, September 15-16, 2014.

Topic: Development of mathematical model of River Gomati: Assessment and prediction of water quality

19. National Seminar “ Plant Biotechnology for Better Future” Sponsored by UGC and Organized by Department of Botany, Govt. College, Anantpur, Andhra Pradesh, 27th and 28th June 2014, pp 95-96 (**ORAL**).

Topic: Exchangeable Sodium Induced Changes on growth, photosynthetic pigments, antioxidative enzymes and quality of *Acorus calamus*.

20. All India Seminar on Sources of Planet Energy, Environmental & Disaster Sciences: Challenges and Strategies(**SPEEDS-2013**) organized by The Institution of Engineers(INDIA) U.P. State Centre, Lucknow and School of Management Sciences, Technical Campus, Lucknow, September 7-8, 2013(**ORAL**).

Topic: Current Environmental Issues of Municipal Solid Waste Management: Use of vermi-technology and its application in reclamation in of sodic degraded waste land.

21. **P.K. Singh** (2008) Management of Municipal Solid Waste (MSW) through vermin composting and its impact on growth, yield and anti-oxidative response of Curcuma amada grown in sodic waste land, in Work shop on Solid Waste Management sponsored by Institute of Engineering and Technology, Lucknow (**ORAL**).

22. Symposium on “Novel approaches for food and nutritional security at **CFTRI, Mysore**, Dec. 6-8, 2007(**ORAL**).

Topic: Changes in anti-oxidative enzymes, water contents and quality of Oscimum sanctum induced by sodium absorption ratio

23. National Seminar on Plant Physiology at **Dapoli, Ratnagiri** during Nov. 29-30 and Dec. 1, 2007(**ORAL**).

Topic: Anti oxidative response against sodicity stress by some aromatic crops.

24. National seminar on Environmental Management in 21st Century Issues and Challenges , **BHU Varanasi**, Feb 16-18, 2006 pp 54 (**ORAL**).

Topic: Sodicity – fertility interaction on Fennel (*Foeniculum vulgare* Mill.) for sustainable management of sodic wasteland

25. Symposium on Spices and Aromatic Crops (SYMSACS-III) held at **F.I.U. Hall, Lalbagh, Bangalore**, Nov., 8-10, 2006 (**ORAL**).

Topic: Exchangeable sodium induced changes in anti-oxidative enzymes, water relation and essential oil quality of fennel (*Foeniculum vulgare* Mill.).

26. International Conference on Sustainable Management of Sodic Lands, Lucknow (India), organized by UP Council of Agriculture Research, Lucknow Feb. 9-14, 2004.

Topic: Screening of sodicity tolerance in different varieties of some spices crops In: Making Sodic Land Bloom

27. National Seminar on Sustainable Sericulture, organized by Regional Sericulture Research Station, Central Silk Board, Deharadoon, Feb. 1-2, 2003.

Topic: Use of Mulberry for sustainable development of sodic soils

28. International Conferences on Plants and Environmental Pollution organized by ISEB and NBRI, Lucknow, Feb. 4-9, 2002.

Topic: Yield and essential oil of some spice crops grown in sodic soils.

29. 89th Session Indian Science Congress organized by Lucknow University, Lucknow, Jan. 3-7, 2002.

Topic: Physiological response of fennel against sodic stress environment

30. National seminar on Perspective and Policies for Land Use Planning, 65th Annual Convention of Indian Society of Soil Science and **NBSSLUP, Nagpur**. Dec. 27-30, 2000.

Topic: Characterization and classification of sodic soils of Gangetic alluvial plains at Banthra, Lucknow.

31. Symposium on Management of Micronutrients deficiency in alluvial plains, organized by Department of Botany, Lucknow University, Lucknow, Aug. 18-20, 1999.

Paper topic: Distribution of available micronutrient in different soil profile.